

FOLIO

Health Sciences Centre Named

The Health Sciences Centre currently under construction to the south of the University campus is to be named after the late Dr. Walter Campbell MacKenzie, the former Dean of the Faculty of Medicine and renowned surgeon, researcher, and teacher.

Dr. MacKenzie had a long and distinguished career. Born in Glace Bay in 1909, Dr. MacKenzie received his early education in Nova Scotia; receiving his baccalaureate and medical training at Dalhousie University before graduating from the University of Minnesota in 1937 with an MS (Surgery). After the war, which saw him hold the rank of Surgeon Commander in the Royal Canadian Navy, Dr. MacKenzie returned to the practise he had established in Edmonton and, in 1950, accepted appointment to the Chair of Surgery.

In 1959, Dr. MacKenzie became Dean of Medicine at this University, a position he held for fifteen years. Author of some sixty-seven articles and papers, he received world-wide recognition for his services to medicine and honorary degrees from McGill University and his alma mater Dalhousie. He was a Fellow of numerous medical institutions and served as President of no less than half of those societies to which he belonged, including the Royal College of Physicians and Surgeons (Canada) and the American College of Surgeons.

Dr. MacKenzie was also the recipient of many of Canada's and the medical field's most prestigious honors. Appointed Honorary Surgeon to Her Majesty the Queen in 1966, a position he



A rendering of the Walter C. MacKenzie Health Sciences Centre.



Walter Campbell MacKenzie

maintained until 1968, he was also the recipient of an Alberta Achievement Award and an Officer of the Order of Canada. From 1974 until shortly before his death in 1978, Dr. MacKenzie was Executive Director of the Provincial Cancer Hospitals Board.

In announcing the future name of the Health Sciences Centre,

Peter Owen, QC, Chairman of The University of Alberta Hospital Board, paid fulsome tribute to the memory of Dr. MacKenzie. "To say that Dr. MacKenzie was a truly gifted man is an understatement," Mr. Owen averred, "Dr. MacKenzie's life long efforts contributed significantly to the stature of Edmonton as a leading medical centre recognized around the globe."

The Walter C. MacKenzie Health Sciences Centre, of which the first phase is expected to be completed in 1982, is one of the most innovative buildings currently under construction in Alberta. Funded almost entirely by the people of Alberta through the Alberta Heritage Savings Trust Fund, Phase I of the Centre will cost approximately \$110 million and will afford 938,000 gross square feet to accommodate a variety of departments and services.

To be housed in this part of the new Centre, constructed according to the most up-to-date "interstitial

modular method," are facilities for the critical diagnostic and treatment services of The University of Alberta Hospital. These include surgical suites, the Department of Radiology, the clinical laboratories, a fully equipped emergency department, greatly expanded out-patient clinics, and a comprehensive library and associated teaching facilities. In addition, there will be 290 replacement in-patient beds, 40 day beds, and 100 "hostel" beds. The Centre will also be linked to the Clinical Sciences Building by means of a two-level pedestrian street.

Phase II of the Walter C. MacKenzie Health Sciences Centre is also coming closer to reality. This part of the Centre, which has already received approval in principle from the provincial government, will afford an additional 478,410 square feet of floor area in which will be accommodated facilities for the treatment of non-critical patients. Mr. Owen, UAH Board Chairman, has indicated that proposals for this stage will be presented to the Government of Alberta within the next two months. □

UAH Board: Chairman and Vice-Chairman

According to press releases issued earlier this month, Peter M. Owen, QC, and William B. McMullen, CA, have been named as Chairman and Vice-Chairman of the Board of The University of Alberta Hospital.

Senior Edmonton counsel, Mr. Owen, graduated from the Faculty of Law in 1948 and has practised in Edmonton until 1976,

during which period he acted as the Hospital's solicitor. Mr. Owen was appointed Queen's Counsel in 1965 and has served on the executives of the Edmonton and Canadian Bar Associations in addition to belonging to other legal societies. Originally appointed to the UAH Board in 1977, Mr. Owen is currently Director of the Legal Education Society of Alberta and serves as Vice-Chairman of the Alberta Racing Commission.

Mr. Owen, who was born in Munich in 1924, came to Canada as a child. During the last world war he served with the Canadian Armoured Corps. Mr. Owen's community service has been wide. Most recently, he has acted as President of the Edmonton Art Gallery and has served as an executive member of the Edmonton Symphony Society and the Beth Shalom Synagogue.

Mr. Owen succeeds Gordon K. Wynn, who resigned the chairmanship of the UAH Board in December 1978 after a tenure of fifteen years.

The new Vice-Chairman of the UAH Board, Mr. McMullen, is forty-seven years old and graduated from the University of Toronto as a commerce and finance major in 1954. He was admitted to the Institute of Chartered Accountants in 1957 and, since 1953, has been a senior

partner with the firm of Coopers, Lybrand, Chartered Accountants.

First appointed to the UAH Board in March 1977, Mr. McMullen has much experience of volunteer administration at a senior level. Former Chairman of the Alberta Institute of Chartered Accountants Education Committee, he has served as President of the Edmonton Art Gallery, President of the Edmonton Ski Club, Investment Chairman for the Edmonton United Way, Chairman of the Alberta Art Foundation, and, most recently, as Chairman of the Commonwealth Sculpture Symposium. In addition, Mr. McMullen, who is married with three children, has served with the Red Cross and has been a member of the UAH Privilege Appeal Board.

Both the appointment of Mr. Owen and Mr. McMullen were made by the Lieutenant-Governor in Council. □

Changes in Office of Adviser on Native Affairs

Effective 1 June 1979, Mr. Edmund Metatawabin will take over as Acting Adviser on Native Affairs. He has served since December 1977 as assistant to Mrs. Marilyn Buffalo MacDonald, whose resignation was recently announced. Mr. Metatawabin is a graduate of the Native Studies program as Trent University. He comes from the James Bay area of Northern Ontario and served as instructor and counsellor at Northern College near Timmins, Ontario, and as counsellor at Trent University, before joining the University of Alberta.

Barbara Kelly will be visiting schools and native communities in northern Alberta this summer as a student liaison representative, to inform teachers, prospective students, and others in the communities about University of Alberta programs and support services.

Miss Kelly is President of the Native Students' Association, and receives her degree in Education during the current convocation. □

research reporter

The Research Reporter, primarily designed to attract the interest of persons in the commercial communications media, is included in Folio on a monthly basis because of the interest shown by the University community in its brief reports. Short descriptions of research—any kind of research—should be sent to Research Reporter, Office of Community Relations, 423 Athabasca Hall. All reports are checked with those concerned prior to being printed.

Teaching Strategy and Pupil Achievement

The evidence is now in but, for the Centre for Research in Teaching, the work is far from over.

On 15 May a pupil achievement test provided the final data in the Centre's major research project being undertaken jointly with the Edmonton Public School Board. Once the project is complete, it should provide some valuable insight into the relationship between effective teaching strategies and pupil achievement.

The Centre, the first of its kind in Canada, was founded within the Faculty of Education at The University of Alberta in July 1977 with support from the Trust Fund for Innovative Projects in Teacher Education, which is administered by the Dean of the Faculty of Education and the University's Vice-President (Academic). Its coordinator is Dr. Al MacKay, a Professor of Educational Administration.

Dr. MacKay explains that "barrels" of research related to teaching strategies have been done in a "lab" setting; however, there is a dearth of material from studies in a "naturalistic" setting. Thus, once the Centre for Research in Teaching became operational, the decision was made to undertake a project with emphasis on observation of what happens in a classroom. And it was decided to undertake a major project, something big

enough and done well enough to provide solid evidence regarding cause and effect.

From these considerations and with the cooperation of the Edmonton Public School Board and seventy of its teachers arose the current project begun last fall. The study is designed to provide answers to two questions: "what is the connection between teaching strategies and pupil achievement?" And the subsidiary question "what impact do in-service teacher training endeavors have?"

The answers were sought in seventy elementary classrooms. That, says Dr. MacKay, meant logistical problems—the largest such study previously undertaken in Alberta had involved twelve classrooms—but they were overcome and the data collection is now complete.

All seventy teachers involved were volunteers, and Dr. MacKay says he was very impressed with the willingness of teachers to take part. Approximately half who took part were grade three teachers and half taught grade six. Two subject areas, mathematics and language arts, were chosen.

The study began with a review of the research literature on teaching. From this, a total of forty skills, strategies, and behaviors thought likely to be effective at those grade levels and in those subject areas were identified. Then, twenty observers trained to look for the identified skills, strategies, and behaviors were sent into the classrooms. Each classroom was visited for six hours during a three-week period and the information gained during those visits serves as baseline data.

The teachers were then given in-service treatment aimed at improving their teaching skills. Forty took part in four half-day workshops, and 30 participated in two half-day workshops. Following the workshops, the teachers were again observed in the classroom for a six-hour period. And on 15 May the achievement test was given to the pupils.

Dr. MacKay expects to have some results from his study by September 1979. Next year, if funding is forthcoming, the study will be duplicated, this time at the junior high level.

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All inquiries and correspondence should be directed to:

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Office of Community Relations
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
Telephone: (403) 432-2325

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Dr. MacKay would like to extend the study to the high school level the following year, but he is not now in the position to make plans that far in the future: the Centre was established and support provided for a three-year trial period only. Its continued existence will depend upon how valuable it has proven itself and, what is more uncertain, a source of continued funding.

Language of Adolescents

A researcher interested in the development of language, Dennis Searle, was working with five adolescent students in Calgary when he discovered a gap so wide that it has influenced his work since that time.

Professor Searle was observing the students during the course of three of their classes and studying the language used, where it came from, and related concerns. To his surprise he found that in a two-week period not once did any of the five ever refer to personal experience when the teacher was present. It was a gap so total that it prompted his subsequent investigations comparing how language is used in the classroom to how it is used outside.

The Assistant Professor of Elementary Education at The University of Alberta says that much is made in some quarters of the "language deficit" of today's adolescent school children. However, he says, it is his experience that young people generally tend to get along very well in the world, learn, and do many interesting things outside the school.

Is it then, perhaps, possible that the language of the students is not poor but stifled in the classroom? And, more importantly if that is the case, is there not a resource of language ability not now being employed in school, a resource which could prove an important aid to learning? These are questions underlying Professor Searle's recent research, much of it conducted while he was undertaking advanced studies in England at the London Institute of Education, University of London.

The observations he has made during the course of his research

support the contention that the language used outside the classroom differs substantially from that used inside.

Professor Searle says that he finds that the basic way in which adolescents organize and communicate their knowledge of the world is in a narrative mode—in episodic anecdotes. And, he says, narratives do lots of things; they do teach and pass on knowledge. Through anecdotes relating personal or observed experiences, one adolescent will communicate to another the fine points of such things as operating a cash register, maintaining a vehicle, or even divesting a parking meter of its contents. Without explicit reference to right or wrong, narratives very clearly communicate to the group the behavior expected and that considered unacceptable.

Professor Searle also notes that in the narratives all the "things that are supposed to be done" usually are—the grouping together of related ideas, use of logical connectives, and so on.

The narrative mode, however, is not one favored—and is even discouraged—in the classroom. There, the powers that be stress the language of classification: "What is . . . ?" "Define . . ." . And objectivity is an ideal; emotion is frowned upon.

Professor Searle believes that by forcing children too quickly into a dry and sterile language mode, breaking the continuity between the classroom and the child's world outside, educators may be neglecting language ability which could prove a valuable resource for learning. Schools could, in fact, be "cutting out the tongues of students."

Professor Searle is continuing his research in this area. In the fall, he plans to work with a small group of children who are beginning grade one and compare the language they bring to the school with that of the classroom.

Research Paper Cited Often

In an article in its 23 April 1979 issue, the periodical *Current Contents* lists the 100 physical science papers published in 1976 which are most often cited in 1976 and 1977 scientific journals.

One of those listed is based on work done at The University of Alberta. That paper resulted from pioneering work done in the laboratory of Dr. Paul Kebarle, a Professor in the Department of Chemistry within the Faculty of Science. Dr. Kebarle was the first to assign intrinsic values of acidity and basicity to acids and bases, thereby solving a very old scientific puzzle.

While the concept of acidity and basicity has long been known, despite numerous attempts, no one had been able to assign intrinsic values to the various acids and bases—values for the compounds independent of the solvent. This is important because an acid, for example, may be strong in water solution but weak in an alcohol solution of the same concentration.

Modern instrumentation in the form of a high pressure mass spectrometer, developed in Alberta, proved the key to the puzzle and led to Dr. Kebarle's significant contribution. This contribution has wide possibilities for practical application, perhaps the most important of which is that it makes easier the prediction of how an acid will behave in different solvents. Dr. Kebarle's work has not gone unrecognized; amongst his honors is included induction as a Fellow of the Royal Society of Canada.

The *Current Contents* article serves as a reminder of the importance of Dr. Kebarle's work. In 1976, he and Dr. R. Yamdagni, then a post-doctoral student working in Dr. Kebarle's lab, were the co-authors of a paper in the *Journal of the American Chemical Society*, which listed the intrinsic acidity and basicity values for a large number of compounds. In 1976 and 1977, that paper was referred to forty times by authors writing in scientific journals; only one paper in the area of physical chemistry was cited more often during those years. And the supplemental figures for 1978, which are included in the article, show Dr. Kebarle's paper as being cited thirty-nine times that year—making it the most often cited physical chemistry paper for which

figures are given.

Dr. Kebarle is quick to point out that the number of times a paper is cited is not an unfailing guide to its importance—the most important paper might be one that only two or three people can understand. The citation index is, however, a widely used means of assessing the value of scholarly publication and it is interesting to note that the *Current Contents* article says the typical 1976 paper published in the scientific journals covered was cited once or twice.

The 100 papers listed in the article originate from eighty-six institutions throughout the world. The University of Alberta paper is the only one originating from a Canadian institution. Denmark, Sweden, Italy, Belgium, the USSR, Switzerland, and the Netherlands are also represented by one institution each. The UK and Australia are represented by three, France by five, and the Federal Republic of Germany by eight. The remainder, fifty-five, are institutions in the United States.

The listing is taken from the Science Citation Index; it and *Current Contents*, a periodical which reprints the tables of contents of scientific publications, both originate from the Eugene Garfield Institute for Scientific Information in Philadelphia, Pennsylvania. □

coming events

Listings must reach the Editor by 9 a.m. on the Thursday before publication. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.

Lectures and Seminars

CUSO Presentations

4 June, Monday. 8 p.m.

"Malaysia." L-3 Humanities Centre. No admission charge.

7 June, Thursday. 8 p.m. "Papua New Guinea (Coastal Region)." L-3 Humanities Centre. No admission charge.

The Reuben Benjamin Sandin Lecture Series

11, 12, 13 June. 11 a.m. Professor Bernard R. Belleau, a chemistry professor at McGill University in Montreal, will give the three lectures. Chemistry E1-60.

Biological Safety

4 to 7 June. 9 a.m. to 12 noon., "Safety in the Biological Laboratory." Telephone 432-2310 for information.

John Janzen Nature Centre

3 June, Sunday. 7 to 10 p.m. "Lake Canoeing with a Naturalist." Fee is \$4.50

Unitarian Church of Edmonton

3 June, Sunday. 10:30 a.m. "Catastrophe or Golden Age" with Dr. Norman Alcock, Director of the Canadian Peace Research Institute. Unitarian Church of Edmonton, 12530-110 Ave.

Biochemistry Seminar

7 June, Thursday. 4 p.m. "A General Fatty Acid Auxotroph: Its Lipid Metabolism and Role in the Ruminant Degradation of Plant Lipids," with speaker G.P. Hazlewood of the Agricultural Research Council, U.K. 2-27 Medical Sciences Building

Technocracy Lecture

4 June, Monday. 8 p.m. "Technocracy's Theory of Energy Determinants." Rocking Chair Lounge, HUB Mall.

Exhibitions

Fireweed Gallery

Until 9 June, Tuesday to Saturday 1 to 4 p.m. and Thursday 6 to 9 p.m. Watercolors, oils, acrylics and drawings by William J. Simpson. 8207 56 Street.

Devonian Botanic Gardens

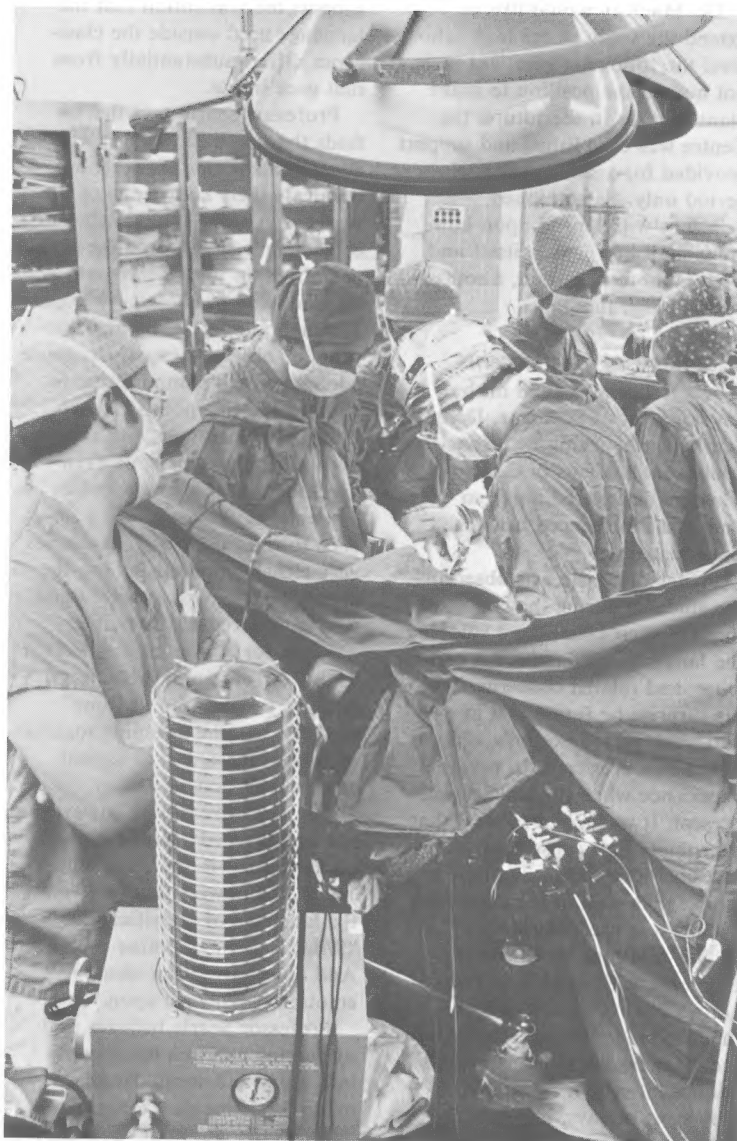
Plants in bloom during the first week of June. Anthemis, Chelidonium, Crambe, Dianthus, Oxytropis, Penstemon,

Watch for Vital Signs

The University's Department of Radio and Television is once again engaging in a cooperative venture with the television arm of Sunwapta Broadcasting Limited, CFRN-TV in Edmonton. A series, to be aired on eight successive Sundays beginning 3 June at 5:30 p.m., will explore issues which affect the general health and well-being of the individual. The series of programs, *Vital Signs*, possesses a common theme: how to prevent medical disorders and the importance of have a care for one's own health.

In order, the topics of each program are as follows: 1) 3 June, organ transplants and the donation of organs; 2) 10 June, forensic medicine and the identification of corpses and causes of death; 3) 17 June, children, home accidents, check-ups and immunization; 4) 24 June, anaesthesia, its history, administration, and effects; 5) 1 July, birth control, a consideration of historical and modern methods; 6) 8 July, cancer, a positive look at the disease, what it is and who can succumb to it; 7) 15 July, poisons in the home and how to prevent their accidental abuse; 8) 22 July, pregnancy and the risks associated with parturition.

All the programs have been produced by the Department of Radio and Television as a public service to the community.



Primula, Tulipa, Viola.

Edmonton Art Gallery

1 June. "E.J. Bellocq, Storyville Portraits." An exhibition of photographic portraits from New Orleans' red-light district at the turn of the century.

Continuing. Pastels on paper by Edmonton artist Ralph Temple. This is an exhibition and sale.

Continuing. An exhibition of works by students in Edmonton Art Gallery classes.

Continuing. "Prairie Printmakers," an exhibition of works by printmakers in the Canadian West.

Continuing. An exhibition of works by Jules Olitski which explores the nature and development of the "matter paintings" of this American artist in the 1970s.

Continuing. An exhibition of works by Gordon Rice.

Provincial Museum

Continuing. "Alberta's Local Histories," an exhibition of historical books from communities and groups across the province.

Continuing. "Ancient Crossroads: the Rural Population of Classical Italy," and "Villa Rustica: the

Canadian Excavations," two exhibitions which include Greek and Roman ceramics and statuary, bronze and gold jewelry, coins, and other items from excavations in southern Italy.

University Art Gallery

1 to 9 June. The gallery will be closed. Re-opens 10 June, Sunday.

Latitude 53

7 June, Thursday. 8 p.m. *New Talent Exhibition* featuring works by new and previously unrecognized artists in Alberta and the Northwest Territories.

Music

Convocation Hall

3 June, Sunday. 8 p.m. Masters Cello Recital by Victoria Clarke, pianist Michael Massey, and violinist Yasuko Eastman. Free Admission.

Citadel Theatre

7 and 8 June. 7 p.m. Benefit concert starring Laura Vinson and Red Wyng and Connie Kaldor. Tickets in advance \$5, available at the Citadel Theatre, Mike's, and the HUB Mall. Also at the door, for \$6.

Edmonton Public Library

3 June, Sunday. 2:30 p.m. Younge-Keown Duo. Free admission.

Espace Tournesol

9 June, Saturday. 8:30 p.m. Terminal City Dance in performance. Tickets \$3.50, available at the Bay, HUB Mall and at the door.

Folk Dance Workshop

2 June, Saturday. 9 a.m. to 4:30 p.m.

3 June, Sunday. 1 to 4 p.m. The International Folk Dancers present Montreal instructor Yves Moreau, who will conduct classes in Balkan and French-Canadian dancing. E-19, Physical Education Building. Fee \$10.

Grant MacEwan Dance Program

3 June, Sunday. 2:30 p.m. Placement auditions for 1979-80 academic year. Telephone 484-7791 for information.

Films

31 May, Thursday to 1 June, Friday. 7:30 and 9 p.m. *That Obscure Object of Desire* (Spain/France 1977: Louis Bunuel). 6 June, Wednesday. 7:30 and 9 p.m. Hermann Hesse double feature *Steppenwolf* and *Siddhartha*. Admission for all Citadel Theatre films is \$2.75. Telephone 425-1820 for information.

Theatre

Walterdale Theatre

Continuing until 2 June. 8:30 p.m. *The Man Who Came To Dinner*, a comedy by George Kaufman and Moss Hart. Tickets \$3, available at the Bay.

Workshop West

Continuing. 8:30 p.m. *On The Job* by David Fennario. Tickets available at the HUB Mall, Mike's, Woodward's, and at the door. Telephone 436-7378.

Studio Theatre

4 June, Monday. 8 p.m. *Bonjour, La Bonjour*, a drama of unconventional love by Michel Tremblay with English translation by John Van Burck and Bill Glassco. Telephone 432-2495.

Northern Light Theatre

Continuing until 3 June. *Back To Beulah* by W.O. Mitchell. Tickets available at the Bay, HUB Mall, and the Northern Light Theatre. Performance in the Edmonton Art Gallery theatre. Telephone 429-3110.

Children

Londonderry Pool

Now open for public swimming. Swimming instruction offered at all levels. Telephone 428-4972 for information.

Fort Edmonton

Now open from 10 a.m. to 6 p.m. daily. Admission is 75c for children \$1 for students and senior citizens, \$2 for other adults, and \$5.50 for families.

Creative Drama

From 3 to 13 July, between 11 a.m. and 12:30 p.m., and from 16 to 27 July, between 3 p.m. and 4:30 p.m., a creative drama class for children aged six to nine. No fee. To register, telephone T. Craig at 432-5870 or 425-8139.

Edmonton Public Library

2, 3 June. 2 p.m. *Twenty Thousand Leagues Under the Sea*. Centennial Library. Free admission.

service information

Notices

University Planning Committee

The dates given in last week's *Folio* calendar for meetings of UPC were incorrect. UPC traditionally meets on the second and fourth Thursday of the month. UPC will next meet on 14 and 28 June.

Misnomers

We wish to apologize to Professor Emeritus Wilfrid Pilkington and the Honorable J.V.H. Milvain for their incorrect identification in last week's *Folio*. The names of these two honorary degree recipients were unfortunately under the wrong photographs.

Pension Plans Division

Please note that the Pension Plans Division has moved from its accommodation in the Administration Building and is now located in 141 Athabasca Hall. The telephone number, however, has remained the same: 432-5634.

Non-Credit Courses

National Coaching Certificate Program Theory Level I

Sponsor: Community Resources Development Division—Faculty of Extension; Faculty of Physical Education and Recreation. Duration: Two days. Beginning: 23 June. For information: Faculty of Extension, 432-3035.

Summer School in Mineral Processing

Beginning: 14 June. Duration: 13 days. The course is broken into three parts: Part A, 14 to 16 June, Fee—\$200; Part B, 18 to 22 June, Fee—\$300; Part C, 25 to 29 June, Fee—\$300. Participants may take all or any combination of A, B, or C. Fee for the full course is \$700. Telephone: 432-5038.

French Courses

Sponsor: The School of the French Alliance. Duration: a) Children: two weeks (9:30 a.m. to 11:30 a.m. daily); b) Adults: two weeks (5:30/6 p.m. to 7:30/8 p.m. daily) or six weeks (5:30/6 p.m. to 7:30/8 p.m., Mondays and Wednesday). Beginning: 2, 16, and 30 July. Location: Education Building. Registration: 232 Education Building, 14 June (4 p.m. to 7:30 p.m.), 16 June (10 a.m. to 1 p.m.). Fee: \$2.25/hour

for children; \$3.25/hour for adults. For information: 435-1969.

Short Course on Public Transit Beginning: 21 June. Duration: Three days. Fee: \$160, including course materials, luncheons, and dinner on 22 June. Telephone: 432-5532 or 432-5061.

Scholarships, Fellowships, and Awards

AUCC Closing Dates

The Canadian Awards Division of the Association of Universities and Colleges of Canada has announced new closing dates for the following competitions:

1 February

Bell Canada Fellowship Program

Gulf Canada Limited Graduate

Fellowships

Emergency Planning Canada Research Fellowship

Department of National Defence

Scholarship and Fellowship Programs

Lever Brothers Limited Bilingual

Exchange Fellowship in Business Administration

Department of National Defence

Post-Doctoral Fellowships in Military History

The Steel Company of Canada Limited Graduate Research Fellowships in Metallurgy

Tele globe Canada

Robert and Mary Stanfield Foundation

Undergraduate Bilingual Exchange

Scholarships in Canadian Studies

1 December

Frank Knox Memorial Fellowships
Harvard University

Research Grants

Granting Agencies:

Application Deadlines

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. To allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time may be much longer than ten days and such applications should be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes and Centres, and the Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-5360. Note: Although the *Calendar* is updated on a continuous basis, the following information is subject to change without notice. Code: (R) Research Funds; (E) Exchange programs; (T) Travel grants.

The University of Alberta

*invites applications
for the position of*

Registrar

The Registrar, with a staff of about 70, is responsible for the admissions, registration and student records of the University (full-time enrolment of about 18,000); serves on the senior academic councils of the University; is responsible for the preparation and publication of University calendars and timetables; and works with Faculties to inform prospective students about the University and its programs. The Registrar's Office is developing a computerized system of student records (in cooperation with the Office of Administrative Systems).

The University of Alberta is an equal opportunity employer.

Salary commensurate with qualifications and experience. Normal faculty benefits will apply.

Deadline for applications is 15 June, 1979. Date of appointment will be 1 July 1979 or later by agreement with appointee.

Send résumé, with names and addresses of three referees to:

Dr. Willard Allen
3-12 University Hall
University of Alberta
Edmonton, Alberta
T6G 2J9

<i>Granting Agency</i>	<i>Deadline Date</i>
Department of National Health and Welfare (R) Calendar Source 155	31 July 31 Jan.
Social Sciences and Humanities Research Council (R) Calendar Source 390	15 July 15 Oct. 15 Jan.
US Department of Health, Education and Welfare (R) Calendar Source 420	
<i>New and Supplemental</i>	1 July 1 Nov. 1 Mar.
<i>Renewals</i>	1 Oct. 1 Feb. 1 June

Positions Vacant

On-Campus

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 25 May.

Clerk Typist II (\$695-\$803)—Housing and Food Services; Bookstore; Business Administration and Commerce; Secondary Education; Provincial Laboratory; Student Awards; Education Media—Extension
Financial Records Clerk (\$695-\$803)—Office of the Comptroller
Clerk Steno II (\$695-\$830)—Pharmacology; History; Elementary Education; Extension; Athletic Services
Clerk Typist III (\$748-\$895)—Administrative Services
Data Entry Operator I/II (\$772-\$1,009)—Rural Economy
Clerk Steno III (\$772-\$929)—Sociology; Rural Economy; Library Science; Civil Engineering; Administrative Services; Obstetrics and Gynaecology; Educational Clinical Services; Physiology; Physics; Psychology; Mineral Engineering; Law; Secretariat
Clerk Steno III (\$818-\$895, trust)—Legal Resource Centre
Programmable Typewriter Operator I/II (\$748-\$969)—Personnel Services
Admission Records Trainee (\$803-\$969)—Office of the Registrar (four positions)
Medical Steno (\$830-\$1,009)—Psychiatry; Medicine; Pediatrics
Secretary (\$431.50-\$526.50, half-time)—Medicine
Secretary (\$863-\$1,053)—Occupational Therapy; Business Administration and Commerce; Anthropology; Movement Education; Physical Therapy; Dental Clinical Sciences; Senate; Medicine; Immunology; Alumni Office
Secretary (\$915-\$1,116, trust)—Theoretical Physics Institute; Riel Project.
Administrative Clerk (\$895-\$1,096)—Dean of Medicine; Medical Bacteriology; Medicine (Special Teaching and Research)
Library Assistant II (\$949-\$1,162, trust)

—Legal Resource Centre
Departmental Secretary (\$969-\$1,192)—Housing and Food Services
Departmental Secretary (\$1,027-\$1,264, term, trust)—Physics
Senior Accounts Clerk (\$1,009-\$1,243)—Office of the Comptroller
Computer Assistant I (\$695-\$830)—Computing Services (four positions)
Laboratory Assistant II (\$721-\$863)—Pharmacy
Building Service Worker II (\$803-\$969)—Housing and Food Services
Technical Assistant (\$830-\$1,009)—Pharmacology
Electronics Technician I (\$929-\$1,143)—Civil Engineering
Instrument Technician I/II (\$929-\$1,298)—Chemical Engineering
Assistant Buyer (\$969-\$1,192)—Purchasing
Electronics Technician I (\$985-\$1,212, trust)—Physics (two positions)
Electron Microscope Technician II (\$1,009-\$1,243)—Pathology
Technician II (\$1,009-\$1,243)—Home Economics
Technician II (\$1,070-\$1,318, trust, term)—Pediatrics
Administrative Assistant (\$1,143-\$1,415, term)—Faculté Saint-Jean
Technician III (\$1,143-\$1,415)—Botany
Biology Technician III (\$1,143-\$1,415)—Genetics
Machinist Technician II/III (\$1,143-\$1,611)—Technical Services (two positions)
Senior Admissions/Records Coordinator I—(\$1,243-\$1,543)—Office of the Registrar
Technologist III (\$1,298-\$1,611)—Animal Science
Controls Fitter (\$1,543-\$1,923)—Physical Plant
Specialist Technician (\$1,708-\$2,131, trust)—Physics

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.
Library Assistant I (\$803-\$969)—Cataloguing

Chief Accountant

A Chief Accountant is required by the Provincial Cancer Hospitals Board. Applicants should have a minimum requirement of completion of a BComm or Business Administration course, completion of the third year of the CGA/RIA program, and exposure to data processing, preferably in a hospital accounting environment.

Salary is commensurate with experience and qualifications. Attractive fringe benefit package including four weeks annual vacation. Apply in writing stating expected salary to: Director of Personnel, Cross Cancer Institute, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2

Secretary I

A medical secretary is required for the Department of Radiation Oncology.

Good typing and spelling is essential, as well as diplomacy in handling phone calls (from doctors, patients, and relatives), initiative, responsibility and genuine interest in work. Salary: \$12,060 - \$12,972 per annum. Apply to: Director of Personnel, Cross Cancer Institute, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2

Post-Doctoral Fellowship Food Science

A Post-Doctoral scholar is required for the Department of Food Science. The incumbent's duties will include the determination of microbial and chemical changes in food products during storage and the development of suitable flexible packaging techniques to extend shelf life. Candidates must have a PhD in Food Science or a related field. The appointment will begin on 1 June 1979 and is for one year but with a possibility of extension. The salary is \$1,000 per mensem.

For further information, please contact D. Paradis or Dr. B. Ooraikul, Department of Food Science, The University of Alberta.

Advertisements

All advertisements and cancellations must be received by 3 p.m. on the Thursday one week before publication. The cost is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

Accommodations available

For sale—Dinner parties will be a delight in this 15½ foot long dining room. Custom built two-storey home with fantastic built-ins in large children's bedrooms. Well located in Blue Quill Phase I within walking distance of Derrick Golf Club. \$169,900. Call Deanna Larson res. 481-0936 or bus. 436-5250. Spencer Real Estate.

For sale—New executive custom built 2,000 sq. ft. home in prestigious Belgravia. Features sunken living room, main floor utility room, skylights and much more. Call Goetz at Crescent Realty. 439-0035, 436-1134.

For rent—Fully equipped house, central, one month starting July. \$400. 455-9931 evenings.

For rent—July - August. Three bedroom condominium, southside, furnished. All utilities. \$450 monthly. 436-5458.

For sale—Blue Quill condominium, 20 minutes from University, one year old, three bedrooms, 1½ bathrooms, carpet throughout. \$56,500 by owner, no agents, day 432-5285, night 436-5982.

For rent—Exceptionally furnished one bedroom apartment. Fully carpeted, background music, paved parking.

Available 1 June - 1 September. \$310 monthly. 433-6969, 488-9151. Caretaker, Apartment 16, 10839 University Avenue.

Accommodation to sublet—11 June - 1 Sept. Large furnished one bedroom apartment. Oliver district. References required. 429-1232, 488-4914.

For sale—Belgravia. Large three bedroom bungalow. Separate dining room, fireplace, eat-in kitchen. Basement completely developed. Drive by 11802 73 Ave. then call to view. Dorothy Hamilton 439-7371 or 436-8509. Kellough Realty.

For sale—South exposure. Panoramic view of river valley. Two bedroom condominium in "The Saskatchewan". Convenient to city centre. Five minutes to University. Well-equipped kitchen, upgraded carpets. Underground parking. Call Pat von Borstel. Spencer Real Estate, bus. 436-5250, res. 437-6540.

For sale—Immaculate, two bedroom condominium in "The Saskatchewan." All new kitchen, underground parking. Fine view of city and river valley. Five minutes to University and city centre. Call Pat von Borstel. Spencer Real Estate bus. 436-5250, res. 437-6540.

For rent—Office space, shop or beauty salon. 500 sq. ft. attractive location. Concord Tower. 11147 82 Ave. Ground floor opposite Corbett Hall and College Plaza. Separate entrance. Ample parking facilities. All utilities. For appointment contact Mr. Andrews 433-1676.

For rent—Blue Quill executive house, three bedroom, sabbatical. \$600 monthly. 436-0625 evenings.

For rent—This summer, home in S.W. Edmonton. 434-7259.

For rent—7803 116 St. Three bedroom, side by side duplex. Three bedrooms, garage. Near University. Available 1 July. \$500 monthly. 437-6550, 424-2141.

For rent—1 July - 15 August. Aspen Gardens. 1,600 sq. ft. bungalow with all furnishings. Nonsmokers. 435-1074 evenings.

For rent—Single person or couple wanted to share partly-furnished two bedroom house with single male. Walking distance to University. Laundry, garage, yard. \$225/month, and ½ utilities. 432-5475.

For sale—Malmo—Owner. 1,775 sq. ft., four bedroom split, 2½ baths, garburetor, laundry, games room, family room, garage, opener. Newly decorated. \$114,900. 434-6565.

For rent—Petroliia. Furnished house in July, August only. Phone 434-5640.

For rent—Riverbend. Three bedroom house fully furnished. 1 Sept. 1979 to 31 May 1980. \$500 per month, \$500 damage deposit. Responsible individuals only. Phone 435-6790 evenings.

For rent—Large three bedroom apartment, own entrance, new four-plex, for family or small group. Appliances. Some utilities included. Central, quiet location. 14615 103 Ave. Phone 458-8478.

To sublet—Three bedroom townhouse, fully furnished in Southgate area. 1 July - 1 September 1979. \$700. Optional rent reduction for care of friendly Chow. Phone 436-1053.

For sale—Superbly renovated Mill Creek home. Offers. Three bedrooms, den and completely modernized kitchen. Energy saving aluminum siding, storms and doors make for a maintenance free exterior. Former suite in basement. Heated garage. Call Paul Gosh at LePage Melton Real Estate. 439-3995, 458-6821.

For rent—Belgravia. Four bedroom home July 1979 - July 1980. \$550 monthly, includes appliances. Phone 435-0607.

For sale—Two bedroom home in mint condition close to all amenities on nicely landscaped lot with garage. Immaculate one bedroom suite downstairs. Asking \$71,900. Call Darlene Coutts 436-2930 or 439-3995. LePage Melton Real Estate.

For sale—#1 Windermere Crescent. Colonial two storey, four bedroom, located on 1.38 acres of land, ideal for family life style. 2½ bathrooms, main floor family room with outstanding rock fireplace. Cedar deck, children's playhouse, double garage. Owner moving to States. Property approximately two miles south of city limits. Prim Spidell. 436-3050 bus. 436-2450 res. Potter Realty Ltd.

For rent—Furnished bi-level in Greenfield. Three bedrooms, two bathrooms, family room. Direct buses to University and city centre. Close to all schools. Available for one year from 1 August, 1979 at \$500 monthly. 434-0067.

For sale—Grandview. Atmosphere galore. Parklike setting surrounds this lovely five bedroom split entry house. Open beam cedar ceilings, large rooms, excellent family kitchen, two large fireplaces, 2½ baths, large family room. Dark room for the photography buff. Double garage. Prim Spidell 436-3050 bus. 436-2450 res. Potter Realty Ltd.

For sale—Ritchie. \$62,900. Immaculate three bedroom, semi bungalow, completely carpeted, single garage, playhouse. Ideal for young family. Near all amenities. Prim Spidell 436-3050 bus. 436-2450 res. Potter Realty Ltd.

For sale—Windsor Park. A beauty. Two bedroom bungalow, newly redecorated. Features a lovely living and dining room. Location is excellent. Superb landscaping. Single heated garage. Extra bedroom and bathroom in basement. Prim Spidell 436-3050 bus. 436-2450 res. Potter Realty Ltd.

For rent—Room. \$125 monthly. Two blocks east University hospital. Shared kitchen, living room. Write Box 376, University of Alberta.

For sale—New executive custom built home in Ermineskin. Unique two-storey design. 2,600 sq. ft. featuring four bedrooms, den, cathedral cedar entrance, formal living and dining rooms, island kitchen with Jenn Air

barbecue, family room with fireplace, 2nd floor laundry room, double garage, backs on to green belt. Phone 434-6298.

For rent—Sabbatical house. Furnished, fireplace, garden, trees. 10 minutes car from University. Mid August - 1 Sept. for up to one year. 452-3557.

For rent—Older two storey house. Six bedrooms, 2½ baths. Walk to University. Four appliances. Some furniture. Near amenities. Prefer family with option to rent rooms. 1 July. 439-0954.

For sale. Pleasantview. Appealing three bedroom custom bungalow with fireplace. Fantastic double lot with many mature trees. Kitchen has cupboard space galore, plus a bright sunny breakfast nook. Two full baths. Minutes from the University. Priced to sell—\$96,900. Call Linda Gregory 432-7142 or Spencer Real Estate 436-5250.

For sale—By owner. \$79,000. Corner lot. Three bedrooms, 2½ garage, basement suite. Direct bus to city centre, Southgate, NAIT, U of A. near three schools. 10803 61 Ave. 435-4569.

For sale—Bungalow in Windsor Park at 8932 116 St. \$127,000. For appointment call 439-4207.

For sale—In Lendrum. All-brick bungalow, (1,442 sq. ft.), double garage in professionally landscaped setting. Adjacent to schools and park. Basement development plus unfinished area to suit your hobby or future plans. Call Pat Von Borstel 437-6540 or Barbara Allen 434-0729. Spencer Real Estate 436-5250.

For sale—Aspen Gardens—Just reduced to \$112,500. Owner can give almost immediate possession of this immaculate split level. This one-owner home is 13 years young and shows its age only by the lovely big trees in the back garden. Features extra large living room with fireplace, separate dining room, four bedrooms and den. Attached single garage can be made tandem from the rear lane. Many features! Investigate now by calling Pat Anholt 436-1559 or Shirley Way-Nee 435-6032; Potter Realty office 436-3050.

For rent—Large three bedroom bungalow. Main floor family room. Front double drive garage. 1½ baths, Easy access University. \$475 monthly. 434-0049.

For sale—Windsor Park. One block off campus. Immaculate two bedroomed bungalow. Tastefully decorated and carpeted throughout. Additional two bedrooms, rumpus and bath down. Beautiful trees provide privacy for sun deck and patio. \$126,900. Phone 439-1880 evenings. Available 31 August.

For sale—By owner. Walk to University from this clean home. July possession. Good existing mortgage. 80's. 439-3725.

For rent—Three bedroom bungalow. Lendrum area. Major appliances included. Finished basement with

extra room. Available 1 July, 1979. \$550 monthly. No pets. 436-2514 after 5 p.m.

For sale: Petroliia—super open beam bungalow with cedar deck ceiling in living and dining rooms, fireplace, 1½ baths, professionally developed basement, attached garage and large pie-shaped lot with mature landscaping suitable for swimming pool. Just reduced to \$102,900. See it immediately by calling Shirley Way-Nee, 435-6032 or Pat Anholt, 436-1599; Potter Realty office 436-3050.

For sale—1,900 sq. ft. split level in Ermineskin. Attractive floor plan. Fourth bedroom or den off panelled foyer. Bay window eating area in kitchen. Price \$129,900. Drive by 10524 32 Avenue. Call Faye Lund. Block Bros. Realty 436-4240, 436-5355.

For sale: Three bedroom semi-bungalow in Allendale. Neat as a pin! Lovely new carpeting. Remodelled kitchen, high quality cupboards, built-in dishwasher. Nicely landscaped and fenced. Perfect starter home. Must be seen. Call Faye Lund, Block Bros. Realty 436-4240, 436-5355.

For sale—Quesnell Heights. Next to park. Unique custom built 2,100 sq. ft. bungalow. Double front attached garage. Laminated beams throughout. 8' x 18' atrium in large impressive entrance. Living room, fireplace in family-dining room. 8' x 18' gourmet kitchen. Three bedrooms, two bathrooms with adjoining tub-room and laundry facilities. Patio doors to deck from study. Fireplace in full sized undeveloped basement. 436-3365.

Accommodations wanted

Wanted to rent—2/3 bedroom house June or later. Responsible professional couple with child and dog will provide excellent upkeep. 469-8063.

Automobiles and accessories

For sale—By owner. VW camper 1975. 25,000 miles. Pop up roof. Fridge, stove, sink, two double bunks, radio. \$7,500 or offers. Days 432-6641. Evenings 436-4961.

1978 Chevrolet Monza Spyder, A 1 condition, loaded, asking \$5,800. 429-3271.

1974 Volvo, automatic, 142GL. \$3,200. Excellent condition. 436-0625 evenings.

1973 Volvo #142. \$3,500. o.b.o. Phone 463-3649.

1974 Austin Marina. 4-door, 4-speed, 20,500 miles. Steven 436-5270.

Goods and services

For sale—17' Cal Glas boat, 120 Merc. Cruiser, inboard-outboard, excellent condition. \$6,500. 434-6565.

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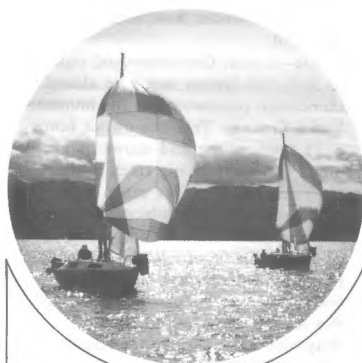
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tion and registration contact Valerie Harrison, Western Personnel. 432-7565.

Washer, dryer, refrigerator, stove. All good condition, package. \$500. 429-3271.

Heavy duty portable automatic washer and dryer (Lady Kenmore. Can be stacked for apartment use. \$550. 456-9281.

Get that job with a professionally prepared résumé. Call Val at Western Personnel to arrange for a personal interview. 432-7565.

English girl seeks employment. Apply 439-5017.

French For Children. Aged 6 to 15 years. two weeks. 3 July - 13 July. Two hours every morning. Mrs. Finotti. 466-7960.

For sale—Dishwasher, white convertible wooden top, excellent condition. \$225. Range, self-cleaning, white, rotisserie, etc. \$225. Baby carriage converts to stroller and car-bed. \$40. 437-6972.

Plant and garage sale: Plants from hobby greenhouses, magazines, books, clothes, household goods, three families. 2 June, 9 a.m. - 5 p.m. 11107-73 Avenue.

For sale: Komura Zoom lens, 90-250mm, f4.5, screw mount, \$125; Vivitar Series 1, macrofocussing auto zoom lens, 70-210mm, f3.5, screw mount, \$295; 49mm Sky 1A and polarized filters, \$10. 432-4429. After 5 p.m. call 436-3505.

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